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AGRICULTURAL MEMORANDUM No 479

Drainage efficiency and effect of lateness in Spring cultivations - EAST

L P Smith

The presentation of Ag Mem 478 is repeated for 6 stations in the EAST, namely

Wellingborough (Northampton)
Bedford
Cambridge
Aylesbury (Bucks)
Watford (Herts)
Writtle (Essex)

It is interesting to note that the tendency to longer dry spells in this area as compared with the northern area produces less potential losses, viz:

	Good Drainage (A)		Bad Drainage (B)	
Schedules	North East	East	North East	East
7 days	1.35	1.25	7.55	5.33
10 days	2.81	2.22	12.08	8.23
14 days	5.32	4.10	19.25	13.09

Any comments or suggestions on this paper should be referred to the author.

Meteorological Office
Bracknell

7-day Schedules

Date	Drainage	Wellingborough A	Wellingborough B	Wellingborough C	Wellingborough D	Bedford A	Bedford B	Bedford C	Bedford D
Before March 15		121	108	98	90	127	118	106	97
March 15-21		10	15	16	17	7	12	20	23
" 22-28		2	7	9	9	2	2	4	7
" 29-4		2	1	1	3	1	1		1
April 5-11		2		4	6		1		
" 12-18		3	3	2	1	3	2	1	
" 19-25			5	6	6		4	8	9
" 26-2			1	4	5			1	2
May 3-9									1
" 10-16					3				
LOST									
Percentage loss of yield		1.7	3.5	5.4	7.5	1.1	2.3	3.7	4.9

	Cambridge A	Cambridge B	Cambridge C	Cambridge D	Aylesbury A	Aylesbury B	Aylesbury C	Aylesbury D
Before March 15	132	124	107	93	121	117	110	103
March 15-21	7	11	24	31	8	10	12	11
" 22-28	1	2	1	4	2	1	3	7
" 29-4		2	3	3				3
April 5-11					2	1	1	2
" 12-18		1			3	2	1	
" 19-25			5	9	4	6	6	7
" 26-2						3	3	2
May 3-9							2	1
" 10-16							2	2
LOST								2
Percentage loss of yield	0.3	1.0	2.6	4.1	2.5	3.6	5.4	6.9

	Watford A	Watford B	Watford C	Watford D	Writtle A	Writtle B	Writtle C	Writtle D
Before March 15	120	112	99	90	129	125	114	101
March 15-21	16	21	28	28	10	10	18	28
" 22-28		1	3	8	1	2	1	1
" 29-4				2				
April 5-11			2	2		1	3	2
" 12-18	3	1		1				2
" 19-25	1	5	8	6		2	4	4
" 26-2				3				2
May 3-9								
" 10-16								
LOST								
Percentage loss of yield	1.5	2.4	3.7	4.9	0.4	1.2	2.3	3.6

10-day Schedules

Date	Drainage	Wellingborough A	Wellingborough B	Wellingborough C	Wellingborough D	Bedford A	Bedford B	Bedford C	Bedford D
Before March 15		156	139	98	90	166	153	135	120
March 15-21		20	22	26	29	21	26	30	33
" 22-28		11	14	14	16	4	7	12	17
" 29-4		2	4	6	7	1	1	4	7
April 5-11		2	6	10	12	2	1	3	5
" 12-18		4	3	5	6	3	2	1	
" 19-25		5	8	8	7	3	10	9	9
" 26-2			4	7	8			4	4
May 3-9								1	1
" 10-16				3	3			1	2
LOST					5				2
Percentage loss of yield		3.0	5.1	7.5	11.0	2.0	3.4	5.4	7.4

	Cambridge A	Cambridge B	Cambridge C	Cambridge D	Aylesbury A	Aylesbury B	Aylesbury C	Aylesbury D
Before March 15	171	152	128	108	165	155	142	131
March 15-21	21	32	45	48	15	16	16	16
" 22-28	4	4	7	13	5	9	10	12
" 29-4	2	4	6	5			8	12
April 5-11	1	2	3	7	2	3	4	5
" 12-18	1	1		3	3	2	1	3
" 19-25		5	11	11	7	8	7	8
" 26-2				3	3	4	5	5
May 3-9				1		3	2	1
" 10-16				1			2	2
LOST							3	5
Percentage loss of yield	1.1	2.6	4.3	6.9	3.3	4.8	7.3	9.1

	Watford A	Watford B	Watford C	Watford D	Writtle A	Writtle B	Writtle C	Writtle D
Before March 15	154	141	122	107	167	160	139	118
March 15-21	35	35	39	40	23	26	34	41
" 22-28	3	9	14	14	4	2	6	10
" 29-4	1	1	6	14	1		5	11
April 5-11		5	3	3	2	5	3	3
" 12-18	3	1	2	7	2	1	3	5
" 19-25	4	7	8	6	1	6	7	5
" 26-2		1	3	3			2	3
May 3-9			2	1			1	
" 10-16			1	4				1
LOST				1				3
Percentage loss of yield	2.3	3.7	5.9	8.2	1.6	2.6	4.4	6.9

14-day Schedules

Date	Drainage	Wellingborough A	Wellingborough B	Wellingborough C	Wellingborough D	Bedford A	Bedford B	Bedford C	Bedford D
Before March 15		183	158	133	116	201	180	154	133
March 15-21		37	42	44	40	39	43	47	51
" 22-28		25	24	24	21	17	19	22	21
" 29- 4		10	13	15	22	6	10	14	15
April 5-11		8	14	15	20	3	8	14	16
" 12-18		4	7	16	19	3	2	6	13
" 19-25		9	9	10	10	10	10	9	11
" 26- 2		4	9	10	12	1	4	4	6
May 3- 9			1				2	1	1
" 10-16			3	6	7		2	5	5
LOST				7	13			4	8
Percentage loss of yield		5.0	7.8	12.3	16.0	3.9	5.8	8.9	11.9

	Cambridge A	Cambridge B	Cambridge C	Cambridge D	Aylesbury A	Aylesbury B	Aylesbury C	Aylesbury D
Before March 15	198	171	141	118	203	190	167	149
March 15-21	50	58	59	57	28	26	30	31
" 22-28	14	15	22	23	18	17	19	17
" 29- 4	6	11	11	16	5	14	20	25
April 5-11	4	10	13	14	5	8	9	16
" 12-18	2	2	11	17	3	2	7	9
" 19-25	6	13	13	13	9	8	8	8
" 26- 2			6	8	5	6	6	8
May 3- 9			2	3	4	3	2	1
" 10-16			2	4		5	5	5
LOST				7		1	7	11
Percentage loss of yield	3.1	4.9	8.3	12.8	5.0	6.9	10.0	12.5

14-day Schedules

Date	Drainage	Watford A	Watford B	Watford C	Watford D	Writtle A	Writtle B	Writtle C	Writtle D
Before March 15		181	163	140	121	198	182	152	125
March 15-21		52	51	53	55	48	50	54	56
" 22-28		24	21	19	18	14	14	15	19
" 29- 4		5	16	24	22	3	10	24	26
April 5-11		6	8	6	9	6	6	8	13
" 12-18		3	5	13	19	3	5	7	11
" 19-25		8	9	9	9	8	9	9	11
" 26- 2		1	3	5	6		2	3	5
May 3- 9			2	3	2		2	1	2
" 10-16			2	7	13			3	4
LOST				1	6			4	8
Percentage loss of yield		4.1	6.3	9.5	13.5	3.5	4.9	8.2	11.8

Average Yield Percentage Losses for EAST Area

Schedule	A	B	C	D
7-day	1.25	2.33	3.84	5.33
10-day	2.22	3.69	5.81	8.23
14-day	4.10	6.11	9.54	13.09